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In re Application of <i>Hyatt Jr.</i>	Filed <i>09/27/96</i>
Application Number <i>08/720,070</i>	

Paper No. \_\_\_\_\_

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(12) **United States Patent**  
**Hyatt Jr.**

(10) **Patent No.:** **US 6,564,601 B2**  
(45) **Date of Patent:** **May 20, 2003**

(54) **ELECTROMECHANICAL CYLINDER PLUG**

(76) **Inventor:** **Richard G. Hyatt Jr., 2720 Timber Rd., Shawsville, VA (US) 24162**

(\*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** **10/061,202**

(22) **Filed:** **Feb. 4, 2002**

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(60) Provisional application No. 60/004,594, filed on Sep. 29, 1995, and provisional application No. 60/011,764, filed on Feb. 12, 1996.

(51) **Int. Cl.<sup>7</sup>** ..... **E05B 49/00**

(52) **U.S. Cl.** ..... **70/278.3; 70/495; 70/277; 70/283.1; 70/278.7; 70/369; 340/5.2**

(58) **Field of Search** ..... **70/278.1-278.3, 70/277, 278.7, 280-283.1, 375, 389, 492, 493, 495, 496, DIG. 62, 367-369; 340/5.2**

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(57) **ABSTRACT**

An electromechanical locking mechanism provides a plug with a rekeyable primary lock mechanism such as a tumbler stack, an electromechanical operator such as a solenoid or a motor, and an electronic circuit having a memory, or an electronic memory and an electronic logic stage, controlling activation and operation of the electromechanical operator, contained entirely within the plug. Insertion of a blade of a key that is properly profiled and bitted to correctly displace the primary lock assembly relative to a cylinder encasing the plug, and application by the key of electrical power, or of electrical power and a correct data signal, to the electronic circuit, will cause activation of the electrical operator and repositioning of a distal member of the operator relative to the cylinder, and thereby enable torque manually applied to the blade of the key to rotate the plug within the cylinder.

**78 Claims, 20 Drawing Sheets**

